

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT  
TITLE V OPERATING PERMIT

24580 Silver Cloud Court  
Monterey, CA 93940  
Telephone: (831) 647-9411

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ISSUED TO:

Granite Rock Company  
P.O. Box 50001  
Watsonville, CA 95077-5001

PLANT SITE LOCATION:

Arthur R. Wilson Quarry  
End of Quarry Road  
Aromas, California

ISSUED BY:

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Douglas Quetin, Air Pollution Control Officer

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Date

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Nature of Business: Granite Harvesting and Processing

SIC Codes: 1423 - Crushed and Broken Granite  
2951 - Asphalt Paving Mixtures

RESPONSIBLE OFFICIAL:

Name: Mr. Jack Leemaster  
Title: Aggregate Division Manager  
Phone: (831) 768-2000

FACILITY CONTACT PERSON:

Name: Mr. Robert DuPuy  
Title: Mining Engineer  
Phone: (831) 768-2314

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## FACILITY DESCRIPTION

Granite Rock Company operates a rock quarry and asphaltic concrete plants at its Wilson Quarry facility located near the town of Aromas in San Benito County.

The granite deposit is accessed by removing a top layer known as overburden which is transported away from the site by a covered overland conveyor. The granite is loosened from the face by blasting and dozer ripping. The harvested rock is processed in a gyratory crusher and then conveyed to the main plant where secondary crushing, sizing, and washing take place in preparation for railcar and truck loadout for sale to end users or for transfer to the asphaltic concrete plants.

In addition, the facility accepts broken concrete and asphalt at the quarry site. This material is processed into a recycled base rock product by the use of a portable rock crushing and screening plant.

Granite Rock's facility is considered a federal Major Source and subject to the Title V permitting program based upon the potential to emit Carbon Monoxide (CO) and Total Suspended Particulates (TSP).

## EQUIPMENT DESCRIPTION

### QUARRY OPERATION CONSISTING OF:

1. Overburden Removal System: Overburden Stripped By Mobile Equipment, Discharged To Overland Conveyor System For Transport To Fill Canyons. Final Placement And Compaction By Mobile Equipment.
2. Mobile Surface Mining Equipment, Mined Material To Primary Crusher And To Screening Plant With Material To Stockpiles For Sale Or To Secondary Crushing And Screening Plant.
3. Secondary Crushing And Screening Plant With Material To Stockpiles For Sale Or To Product Reclaim.
4. Product Reclaim: Material Conveyed From Stockpiles To Truck & Railcar Loadout For Sale Or Provided As Raw Materials To The Asphaltic Concrete Facility.
5. Asphaltic Concrete Facility Consisting Of:
  - a) Asphalt Receiving, Heating And Storage: Asphalt Received From Truck And Railcar, Heat Provided To Unload Rail Car By Diesel Fired Equipment With Less Than 1.5 MMBtu/Hr Heat Input, Heat Provided To Storage Tanks By Natural Gas Fired Equipment With Less Than 6.0 MMBtu/Hr Heat Input, Total Storage Capacity Of 209,000 Gallons Providing Asphalt To The Astec Drum Mix & Madsen Plants.
  - b) Asphalt Receiving, Heating And Storage: Asphalt Received From Truck, Heat Provided To Storage Tanks By Natural Gas Or Propane Fired Equipment With Less Than 2.5

MMBtu/Hr Heat Input, Total Storage Capacity Of 50,000 Gallons Providing Asphalt To The Astec Batch Plant.

- c) Astec Continuous Asphaltic Concrete Mixing Plant: Five 100 Ton Raw Material Storage Bins Providing Material To The 123 MMBtu/Hr Natural Gas Or Fuel Oil Number 2 Fired Drum Mixer Which Is Vented to A Baghouse Dust Collector And Discharging The Asphalt Concrete To Four Storage Bins With A Total Capacity Of 750 Tons. Material Collected In The Baghouse Is Reinjecting Pneumatically Into The Drum Mixer.
  - d) Madsen Asphaltic Concrete Batch Plant: Five 100 Ton Raw Material Storage Bins Providing Materials To The 100 MMBtu/Hr Natural Gas Fired (Fuel Oil Number 2 Standby) Rotary Aggregate Dryer Which Is Vented to The Dust Collection System And Discharging Heated Aggregate To The Aggregate Screen And To The Four 40 Ton Overhead Storage Bins. The Overhead Storage Bins And Mineral Silo Discharge To The Aggregate Weigh Hopper (Which Is Vented To The Dust Collection System) And To The Madsen Mixer Which Discharges To Truck Loadout Or To The Shuttle Conveyor For Transfer To Storage In The Astec Continuous Asphalt Concrete Mixing Plant Storage Bins. Dust Collection System Consists Of A Cyclone And A Baghouse Dust Collector, With The Collected Dust Material Transferred Pneumatically To The Mineral Silo.
  - e) Astec Asphaltic Concrete Batch Plant: 150 MMBtu/Hr Natural Gas Or Propane Fired Rotary Aggregate Dryer (Which Is Vented to The Dust Collection System), Discharging The Heated Aggregate To The Hot Aggregate Screen And To Four Hot Aggregate Storage Bins With A Total Capacity Of 100 Tons. The Bins Discharge To A Weigh Hopper And To A 6 Ton Capacity Pugmill Which Discharges To Truck Loadout Or To Two Surge Silos, Each With A 200 Ton Capacity. The Storage Bins, Weigh Hopper, And The Pugmill Are All Vented To The Dust Collection System, The Truck Loadout And The Surge Silos Are Vented To The Blue Smoke Recovery System Which Vents To The Dryer Inlet. Dust Collection System Consists Of A Cyclone And A Baghouse Dust Collector, With The Collected Dust Material To The Hot Aggregate Screen Or The Pugmill.
6. Portable Rock Crushing & Screening Plant Powered By A 890 Bhp Diesel Engine Generator Set, 600 KW Power Output.
7. Ancillary Equipment:
- Lake Dredge, Powered By A 635 Bhp Diesel Engine.
  - Emergency 1809 Bhp Diesel Engine Generator Set, 1250 KW Electrical Output.
  - Gasoline Dispensing Facility: 1000 Gallon Above Ground Gasoline Storage Tank With Phase I And Phase II Vapor Recovery.

FEDERALLY ENFORCEABLE EMISSION LIMITS AND STANDARDS

1. Quarry production shall not exceed 43,200 tons per day. [District Rule 207]
2. All crushers in the quarry operation with the exception of the primary crusher shall be enclosed and/or equipped and operated with dust suppressant systems as necessary such that no fugitive emissions are discharged to atmosphere which exhibit greater than 15% opacity. [District Rule 207; 40 CFR Part 60, Subpart OOO]
3. Process materials shall contain sufficient natural or added moisture as necessary such that no fugitive emissions are discharged to atmosphere from screens, storage bins, and conveyor transfer points in the quarry operation downstream of the primary process which exhibit greater than 10% opacity, except where material is being transferred to a stockpile. [District Rule 207; 40 CFR Part 60, Subpart OOO]
4. For all plant operations, including stockpiles, sufficient natural or added moisture shall be contained in the materials handled to prevent fugitive emissions equal to or exceeding 20% opacity, or equivalent Ringelmann #1, for any period or periods aggregating more than three minutes in any one hour. [District Rule 207]
5. Haul roads, access roads and general plant areas shall be paved, sprayed with chemical stabilizers, kept sufficiently moist, or otherwise maintained to prevent excessive fugitive emissions from vehicle traffic or front end loader activity. Excessive fugitive emissions are defined as "emissions exceeding 20% opacity for any period or periods aggregating more than three minutes in any one hour, or which cause a public nuisance." [District Rule 207]
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or equivalent 20% opacity. [District Rule 400; 40 CFR Part 60, Subpart I for the Astec Batch Plant]
7. Particulate matter shall not exceed 0.04 grains per standard dry cubic foot in the exhaust stream from the Astec Batch Plant. [40 CFR Part 60, Subpart I]
8. Particulate matter shall not exceed 0.15 grains per standard dry cubic foot in any exhaust stream. [District Rule 403]
9. Particulate matter shall not exceed the lessor of 40 pounds per hour or the pound per hour limit established by the following mass emission limit equation [District Rule 403]:

$$E = 4.10P^{0.67}$$

Where:

E =rate of emission in pounds per hour

P =process weight rate in tons per hour

10. Sulfur compounds calculated as sulfur dioxide ( $\text{SO}_2$ ) shall not exceed 0.2 percent by volume in any exhaust stream. [District Rule 404]
11. Oxides of Nitrogen, calculated as nitrogen dioxide ( $\text{NO}_2$ ), shall not exceed 140 Lbs/hr in any exhaust stream. [District Rule 404]
12. Oxides of Nitrogen, calculated as nitrogen dioxide ( $\text{NO}_2$ ), from all gaseous fuel fired equipment shall not exceed 350 ppmv, calculated at 3 percent  $\text{O}_2$ , dry. [District Rule 404]
13. The sulfur content on any fuel oil used at the facility shall not exceed 0.5 percent by weight. [District Rule 412]
14. The sulfur content on any gaseous fuel used at the facility shall not contain sulfur compounds, calculated as hydrogen sulfide at standard conditions, in excess of 50 grains per 100 cubic feet. [District Rule 412]
15. Granite Rock Company shall operate the storage tank at gasoline dispensing facility with a permanent submerged fill pipe. [District Rule 418]
16. Granite Rock Company shall prevent the emission of 95 percent by weight of the gasoline vapors displaced during the filling of the storage tank at the gasoline dispensing facility by the use of Phase I Vapor Recovery. [District Rule 418]
17. Granite Rock Company shall operate a Phase II vapor recovery system on the Gasoline Storage Tank which has been certified by the California Air Resources Board. [District Rule 1002]
18. Granite Rock Company shall limit emissions of volatile organic compounds by the use of architectural coatings which comply with the requirements of District Rule 426. [District Rule 426]
19. Granite Rock Company shall limit emissions of volatile organic compounds during solvent cleaning and degreasing operations pursuant to the requirements of District Rule 433. [District Rule 433]
20. Should the facility, as defined in 40 CFR §68.3 become subject to Part 68, then Granite Rock Company shall submit a risk management plan (RMP) by the date specified in 40 CFR §68.10. Once subject to Part 68, Granite Rock Company shall certify compliance with these requirements as part of the annual compliance certification required by 40 CFR Part 70 and this permit [40 CFR Part 68]

21. Granite Rock Company shall comply with the requirements of 40 CFR Part 82 - Protection of Stratospheric Ozone. [40 CFR Part 82]

#### TESTING REQUIREMENTS AND PROCEDURES

22. Granite Rock Company shall conduct testing annually, in accordance with the methodology contained in EPA Method 9 to verify compliance with conditions 2 and 3. This testing requirement does not apply to any wet process where the process flow is dependent on water flow as compliance is assured due to the moisture content inherent in the process. [District Rule 218]
23. Granite Rock Company shall conduct testing annually, in accordance with the methodology contained in EPA Method 9 and the averaging/aggregating period contained in District Rule 400 to verify compliance with conditions 4 and 5. [District Rule 218]
24. Granite Rock Company shall conduct testing annually, in accordance with the methodology contained in EPA Method 9 and the averaging/aggregating period contained in District Rule 400 to verify compliance with condition 6 for all non-point sources. This testing requirement does not apply to any wet process where the process flow is dependent on water flow as compliance is assured due to the moisture content inherent in the process. [District Rule 218]
25. Granite Rock Company shall conduct testing semi-annually, in accordance with the methodology contained in EPA Method 22 to verify compliance with conditions 6, 7, 8 and 9 for all point sources. This testing requirement does not apply to any wet process where the process flow is dependent on water flow as compliance is assured due to the moisture content inherent in the process.

If no emissions are observed utilizing Method 22, no further testing is required.

If emissions are observed from any point source and that point source is not operating under breakdown conditions as defined in and allowed for in District Rule 214, Granite Rock Company shall conduct testing on that point source [District Rule 218]:

- 1) within 24 hours of the Method 22 testing in accordance with the methodology contained in EPA Method 9 and the averaging/aggregating period contained in District Rule 400 to verify compliance with condition 6; and
  - 2) within 30 days of the Method 22 testing in accordance with EPA Method 5 or 5D to verify compliance with the requirements of conditions 7 and/or 8 and 9.
26. No testing is specified for the (Rule 404) sulfur concentration limit in condition 10. The fuel burning equipment is assumed to be in compliance with this sulfur concentration limit based upon

the engineering calculations contained in the evaluation report. If testing is conducted for condition 10, Granite Rock Company should conduct testing in accordance with the methodology contained in EPA Method 6 or equivalent method. [District Rule 218]

27. No testing is specified for the (Rule 404)  $\text{NO}_x$  (oxides of nitrogen) limit in conditions 11 and 12. The fuel burning equipment is assumed to be in compliance with these  $\text{NO}_x$  limits based upon the engineering calculations contained in the evaluation report. If testing is conducted for conditions 11 and 12, Granite Rock Company should conduct testing in accordance with the methodology contained in EPA Method 7 or equivalent method. [District Rule 218]
28. Testing of all fuel oil delivered to the facility shall be conducted prior to or upon receipt of the fuel oil, or in lieu of testing a manufacturers certification of the sulfur content of the fuel oil shall be supplied at the time of delivery. Granite Rock Company shall conduct testing in accordance with ASTM D1552-83, ASTM D1266-87, ASTM D2622-87 or equivalent method or shall receive certification as to the sulfur content of the fuel oil from the manufacturer to verify compliance with condition 13. [District Rule 218]
29. No testing is specified for the (Rule 412) sulfur content of gaseous fuels limit in condition 14 as long as the only gaseous fuels fired are pipeline quality natural gas and propane. If the facility fires other gaseous fuels, Granite Rock Company shall conduct testing of all the other gaseous fuel(s) in accordance with ASTM D072-80, ASTM D3031-81, ASTM D3246-81, SCAQMD Method 307-91 or equivalent method to verify compliance with condition 14. [District Rule 218]

#### MONITORING AND RECORD KEEPING REQUIREMENTS

30. Granite Rock Company shall maintain records showing the daily quarry production. [District Rule 218]
31. Granite Rock Company shall maintain records showing the quantity of all gasoline delivered to the gasoline dispensing facility. [District Rule 418]
32. Granite Rock Company shall maintain a monthly log of the facility-wide total volume of make-up solvent used, and waste solvent disposed of or recycled, for all cleaning devices using volatile organic compounds for solvent cleaning and degreasing. [District Rule 433]

The record keeping provisions of this condition do not apply to remote reservoir cold cleaners which are serviced by an independent contractor. For such remote cold cleaners, evidence of service shall be maintained.

33. As applicable Granite Rock Company shall maintain the following general records of required



monitoring information [District Rule 218]:

- A) the date and time of sampling or measurements;
- B) the date(s) analyses were performed;
- C) the company or entity that performed the analyses;
- D) the analytical techniques or methods used;
- E) the results of such analyses;
- F) the operating conditions existing at the time of sampling or measurement; and
- G) the records of quality assurance for continuous monitoring systems (including, but not limited to quality control activities, audits, and calibration drift checks) and source testing methods.

34. Granite Rock Company shall maintain records on the occurrence and duration of any startup, shutdown, or malfunction in the operation of the control equipment under this permit. [District Rule 218]
35. Granite Rock Company shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring, sample collection, measurement, report, and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [District Rule 218]

#### REPORTING REQUIREMENTS

36. Granite Rock Company shall report all breakdowns which results in the inability to comply with any emission standard or requirement contained on this permit to the Air Pollution control Officer (APCO) within one hour of the occurrence, this one hour period may be extended up to six hours for good cause by the APCO. The APCO may elect to take no enforcement action if Granite Rock Company demonstrates to the APCO's satisfaction that a breakdown condition exists.

The estimated time for repair of the breakdown shall be supplied to the APCO within 24 hours of the occurrence and a written report shall be supplied to the APCO within five days after the occurrence has been corrected. This report shall include at a minimum [District Rule 214]:

- A) a statement that the condition or failure has been corrected and the date of correction; and
- B) a description of the reasons for the occurrence; and
- C) a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and
- D) an estimate of the emissions caused by the condition or failure.

37. Granite Rock Company shall submit semiannual monitoring reports to the District, in a District approved format, no later than August 15 for the period of January 1 through June 30 and no later than February 15 for the period of July 1 through December 31. [District Rule 218]

These monitoring reports shall include at a minimum:

- A) the time intervals, date and magnitude of excess emissions, nature and cause of the excess (if known), corrective actions and preventative measures adopted; and
- B) the averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant in question; and
- C) all information pertaining to any monitoring as required by this permit; and
- D) a negative declaration specifying when no excess emissions occurred.

38. Granite Rock Company shall submit an annual compliance certification report to the District and U.S. EPA, in a District approved format, no later than February 15 for the period of January 1 through December 31 of the preceding year. [District Rule 218]

This report shall include a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report and shall include at a minimum:

- A) identification of each term or condition of the permit that is the basis of the certification; and
- B) the compliance status; and
- C) whether compliance was continuous or intermittent; and
- D) the method(s) used for determining the compliance status of the source, currently and over the reporting period.

#### GENERAL CONDITIONS

39. Granite Rock Company shall comply with all conditions of this federal operating permit. Any noncompliance with a permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [District Rule 218]

40. In an enforcement action, the fact that Granite Rock Company would have to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit is not a defense. [District Rule 218]
41. This permit may be modified, revoked, reopened and reissued, or terminated for cause as determined by the District. The filing of a request by Granite Rock Company for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 218]
42. This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. [District Rule 218]
43. Granite Rock Company shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, Granite Rock Company shall also furnish to the District copies of records required to be retained by this permit. [District Rule 218]
44. For applicable requirements that will become effective during the permit term, Granite Rock Company shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. [District Rule 218]
45. Any document submitted to the District pursuant to this permit shall contain certification by the responsible official of truth, accuracy and completeness. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Granite Rock Company shall promptly, upon discovery, report to the District a material error or omission in these records, reports, plans, or other documents. [District Rule 218]
46. Granite Rock Company shall report any violation of any requirement contained in this permit to the District within 96 hours after such occurrence. The violation report shall include the time intervals, date and magnitude of excess emissions; nature and cause of the excess (if known), corrective actions and preventive measures adopted. [District Rule 218]
47. Upon any administrative or judicial challenge, all the emission limits, specific and general conditions, monitoring, record keeping, and reporting requirements of this permit, except those being challenged, remain valid and must be complied with. [District Rule 218]
48. For this federal operating permit to remain valid through the permit term of five years from the date of issuance, Granite Rock Company shall pay an annual emission fee based upon the requirements of District Rule 308. [District Rule 218]

49. Granite Rock Company shall have available at the facility at all times a copy of this federal operating permit. [District Rule 218]
50. For protection from enforcement action based upon an emergency, as defined in District Rule 218, the responsible official for Granite Rock Company shall submit to the District relevant evidence which demonstrates [District Rule 218]:
- A) an emergency occurred; and
  - B) that Granite Rock Company can identify the cause(s) of the emergency; and
  - C) that the facility was being properly operated at the time of the emergency; and
  - D) that all steps were taken to minimize the emissions resulting from the emergency; and
  - E) within two working days of the emergency event, Granite Rock Company provided the District with a description of the emergency and any mitigating or corrective actions taken.
51. Upon presentation of credentials, Granite Rock Company shall allow the District, the ARB, the EPA, or an authorized representative, to perform the following [District Rule 218]:
- A) enter upon the premises where the federal operating permit source is located or in which any records are required to be kept under the terms and conditions of this federal operating permit;
  - B) to have access to and copy any records required to be kept under the terms and conditions of this federal operating permit;
  - C) to inspect any equipment, operation, or process described or required in this federal operating permit; and,
  - D) to sample emissions from the source.

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